

## Contents Volume 112, 1994

### Research Papers

- Late Cenozoic basaltic volcanism around the Taiwan Strait, SE China: Product of lithosphere–asthenosphere interaction during continental extension  
S.-L. Chung, S. Sun, K. Tu, C.-H. Chen and C. Lee ..... 1
- Sm–Nd isotope systematics of 1.9–1.8-Ga granites from western Bergslagen, Sweden: inferences on a 2.1–2.0-Ga crustal precursor  
P.J. Valbracht..... 21
- A re-examination of the influence of composition on argon retentivity in metamorphic calcic amphiboles  
M.A. Cosca and R. Keith O'Nions ..... 39
- High-resolution SIMS analysis of common lead  
N.S. Belshaw, R.K. O'Nions, D.J. Martel and K.W. Burton..... 57
- Rb–Sr systematics of Vendian–Cambrian claystones from the east European Platform: implications for a multi-stage illite evolution  
I.M. Gorokhov, N. Clauer, T.L. Turchenko, N.N. Melnikov, E.P. Kutuyavin, E. Pirrus and A.V. Baskakov ..... 71
- The release of phosphorus from oxygenated estuarine sediments  
W.A. Maher and M. DeVries..... 91
- Carbonate geochemistry and the concentrations of aqueous  $Mg^{2+}$ ,  $Sr^{2+}$  and  $Ca^{2+}$ : Western north coast of the Yucatan, Mexico  
A.S. Reeve and E.C. Perry ..... 105

### Discussion

- Constraints on rare gas partition coefficients from analysis of olivine–glass from a picritic mid-ocean ridge basalt — Comments  
H. Hiyagon..... 119
- Constraints on rare gas partition coefficients from analysis of olivine–glass from a picritic mid-ocean ridge basalt — Reply  
B. Marty and P. Lussiez..... 122

### Isotope Geoscience Section

#### Research Papers

- Criteria for the retention of original seawater  $^{87}Sr/^{86}Sr$  in ancient shelf limestones  
R.E. Denison, R.B. Koepnick, A. Fletcher, M.W. Howell and W.S. Callaway ..... 131
- Construction of the Mississippian, Pennsylvanian and Permian seawater  $^{87}Sr/^{86}Sr$  curve  
R.E. Denison, R.B. Koepnick, W.H. Burke, E.A. Hetherington and A. Fletcher ..... 145
- Towards zircon fission-track thermochronology: Reference framework for confined track length measurements  
N. Hasebe, T. Tagami and S. Nishimura..... 169
- (Uranium + thorium)/helium dating of apatite: experience with samples from different geochemical environments  
H.J. Lippolt, M. Leitz, R.S. Wernicke and B. Hagedorn..... 179

#### Discussion

- A new approach for the determination of age of a partial or complete homogenisation of Pb isotopes — Example: anchimetamorphic, detrital sediments of the Central Iberian Zone, Spain — Comments  
I. Wendt ..... 193
- A new approach for the determination of age of a partial or complete homogenisation of Pb isotopes — Example: anchimetamorphic, detrital sediments of the Central Iberian Zone, Spain — Reply  
Th.F. Nägler, H.-J. Schäfer and D. Gebauer ..... 194

*Book Review*

<i>Proterozoic Crustal Evolution</i> , by K.C. Condie (Editor) — H. Baadsgaard.....	197
---	-----

*Research Papers*

Aluminous subsolvus anorogenic granite genesis in the light of Nd isotopic heterogeneity F. Poitrasson, C. Pin, J.-L. Duthou and B. Platevoet.....	199
Geochemistry of Spanish sepiolite-palygorskite deposits: Genetic considerations based on trace elements and isotopes J. Torres-Ruiz, A. López-Galindo, J.M. González-López and A. Delgado .....	221
The occurrence and chemistry of huntite from Oman G. Stanger and C. Neal .....	247
Trace-metal behaviour in oxic and anoxic Ca-Cl brines of the Wright Valley drainage, Antarctica J.G. Webster .....	255
Metal contamination due to mining and milling activities at the Zawar zinc mine, Rajasthan, India 1. Contamination of stream sediments B.G. Prusty, K.C. Sahu and G. Godgul .....	275
Metal contamination due to mining and milling activities at the Zawar zinc mine, Rajasthan, India 2. Dispersion in floodplain soils of stream K.C. Sahu, B.G. Prusty and G. Godgul .....	293
Variability of early diagenesis in lake sediments: Evidence from the sedimentary geolipid record in an isolated tarn E.S. Ho and P.A. Meyers .....	309

*Isotope Geoscience Section**Research Papers*

Carbon and noble gases in Archean chert Y. Sano, K. Nagao and C.T. Pillinger.....	327
Excess argon in phengite from eclogite: Evidence from dating of eclogite minerals by Sm-Nd, Rb-Sr and <sup>40</sup> Ar/ <sup>39</sup> Ar methods S. Li, S. Wang, Y. Chen, D. Liu, J. Qiu, H. Zhou and Z. Zhang .....	343
The age and origin of the barite-fluorite (Pb-Zn) veins of the Sierra del Guadarrama (Spanish Central System, Spain): a radiogenic (Nd, Sr) and stable isotope study C. Galindo, F. Tornos, D.P.F. Darbyshire and C. Casquet.....	351
<i>Contents Volume 112, 1994</i> .....	365